CLAIMS

What is claimed is:

- 1. A method for preventing galvanic corrosion in fastener assemblies employing a metallic fastener insert, a threaded fastener and a receiving element, said method comprising the steps of:
- a) providing a fastener and a fastener insert for retaining the fastener within said receiving element;
- b) coating said fastener insert with a chromate free fluoropolymer composition; and
- c) adjoining the fastener and coated fastener insert within said receiving element.
- 2. The method of Claim 1, wherein said fastener insert is cleaned prior to being coated.
- 3. The method of Claim 1, wherein said fastener insert is abraded prior to being coated.
- 4. The method of Claim 1, wherein said fastener insert is optionally precoated with a primer prior to applying said coating.

- 5. The method of Claim 1, wherein said coating applied to said fastener insert has an average dry thickness of between about 0.3 to 0.5 mils.
- 6. The method of Claim 5, wherein said coating is applied via a dip spin technique.
- 7. The method of Claim 6, wherein said coating is applied in multiple layers.
 - 8. The method of Claim 5, wherein said coating is applied via spraying.
- 9. The method of Claim 1, wherein said coating has an average viscosity at the time of application of between about 20 to 30 seconds at 25°C.
- 10. The method of Claim 1, wherein said coating is cured upon said fastener insert by baking at a temperature of between about 180°C to about 240°C prior to being inserted into said receiving element.
 - 11. A fastener assembly comprising:
 - a threaded fastener formed from a first metal;
 - a metallic fastener insert; and
 - a receiving element;
 - wherein at least one of the metallic fastener inserts and the receiving

element is formed from second metal;

whereby said fastener insert is coated with a chromate free fluoropolymer composition to reduce the potential occurrence of galvanic corrosion in the fastener assembly.

- 12. The fastener assembly of Claim 11, wherein said coating has an average dry thickness of between about 0.3 to 0.5 mils.
- 13. The fastener assembly insert of Claim 11, wherein said coating has an average viscosity at the time of application of between about 20 to 30 seconds at 25°C.
- 14. A coated metallic fastener insert of a fastener assembly including metallic fastener and a receiving element for said fastener insert, at least one of said insert, fastener and receiving element being formed from a metal alloy which is different from the metal of the other of said insert, fastener or substrate, said insert comprising:

a substantially cylindrical body of helically would wire including a plurality of convolutions wherein the outer surface is coated with a chromate free fluoropolymer composition to preclude galvanic corrosion within said fastener assembly.

15. The coated metallic fastener insert of claim 14, wherein said insert is formed from stainless steel.

- 16. The coated metallic insert of claim 14, wherein said insert reduces galling of said fastener.
- 17. The coated metallic fastener insert of claim 14, further comprising a primer applied to said insert prior to the application of said fluoropolymer composition.
- 18. The coated metallic fastener insert of claim 14, wherein said coils of said insert provide 60° internal screw threads upon insertion within said tapped hole.